Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Project Division Yelahanka

Name of Work: Improvements to Main roads and drains at Shivanahalli

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	**Removing and refixing** stone slabs of drains and pointing in CM (1:3) (I No-5.33, P No-25)								
	Basic rate	76.00							
	11% AD-HOC	8.36							
	Sub total	84.36							
	6.00% AW	5.06							
	Total	**89.42**							
	Jayamuni Layout								
	Main road	2	40.00	1.65		132.00			
	6th cross	2	12.00	1.65		39.60			
	2nd main	2	30.00	1.65		99.00			
	4th cross	2	30.00	1.65		99.00			
	5th cross	2	10.00	1.65		33.00			
	7th cross	2	15.00	1.65		49.50			
	2nd cross	2	12.00	1.65		39.60			
						491.70	**Sqm**	**89.42**	**43,968.60**
2	KSRRB 200-8. Clearing and grubbing road land including uprooting rank Sqm vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications.(I No-18.11, P No-136)								
	Basic rate	6.00							
	11% AD-HOC	0.66							
	Sub total	6.66							
	6.00% AW	0.40							
	Total	**7.06**							
	Surabi layout								
	Visvesvarayya Road	2	232.00	1.80		835.20			
	Church Road	2	130.00	1.80		468.00			
	Cambridge School back side	2	212.00	1.80		763.20			
	Cambridge School parallel Rd	2	73.00	1.80		262.80			
	SS Elite APt	2	167.00	1.80		601.20			
	Shivanhalli 2nd Stage								
	1st Main	2	60.00	1.80		216.00			
	1st Cross	2	73.00	1.80		262.80			
	2nd Cross	2	73.00	1.80		262.80			
	Jayamuni Layout								
	Main road	2	295.00	1.80		1062.00			
	2nd main	2	32.00	1.65		105.60			
	4th cross	2	74.00	1.90		281.20			
	5th cross	2	175.00	1.80		630.00			
	7th cross	2	30.00	1.70		102.00			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	2nd cross	2	48.00	1.70		163.20			
						6016.00	**Sqm**	**7.06**	**42,470.55**
3	KSRRB 300-1. **Earthwork excavation** by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete asper specifications.MORTH / Chapter 3(I No-19.1, P No-133)								
	Basic rate	82.00							
	11% AD-HOC	9.02							
	Sub total	91.02							
	6.00% AW	5.46							
	Sub total	96.48							
	10km lead & lift, transport	84.00							
	Total	**180.48**							
	Surabi layout								
	Cambridge School back side	2	96.00	1.10	1.10	232.32			
	SS Elite APt	2	90.00	1.10	1.10	217.80			
	Shivanhalli 2nd Stage								
	1st Main	2	60.00	0.50	0.40	24.00			
	1st Cross	2	73.00	0.50	0.40	29.20			
	2nd Cross	2	73.00	0.50	0.40	29.20			
	Jayamuni Layout								
	Main road	2	295.00	0.50	0.40	118.00			
	6th cross	2	32.00	0.50	0.30	9.60			
	2nd main	2	74.00	0.40	0.40	23.68			
	4th cross	2	175.00	0.50	0.40	70.00			
	5th cross	2	30.00	0.40	0.30	7.20			
	7th cross	2	48.00	0.40	0.30	11.52			
	2nd cross	2	20.00	0.40	0.40	6.40			
						778.92	**Cum**	**180.48**	**140580.42**
4	Providing **granite slabs** of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete. (I No-5.31.1, P No-25)								
	Basic rate	628.00							
	11% AD-HOC	69.08							
	Sub total	697.08							
	6.00% AW	41.82							
	Total	**738.90**							
	Jayamuni Layout								
	Main road	2	30.00	1.65		99.00			
	6th cross	2	10.00	1.65		33.00			
	2nd main	2	10.00	1.65		33.00			
	4th cross	2	25.00	1.65		82.50			
	2nd cross	2	12.00	1.65		39.60			
						287.10	**Sqm**	**738.90**	**212139.57**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
5	KSRB 4-1.2 : Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms^thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2.(P.No-12,I No-4.2)								
	Basic rate	5046.00							
	11% AD-HOC	555.06							
	Sub total	5601.06							
	6.00% AW	336.06							
	Total	**5937.12**							
	Surabi layout								
	Cambridge School back side	2	96.00	1.05	0.15	30.24			
	SS Elite APt	2	90.00	1.05	0.15	28.35			
						58.59	**Cum**	**5937.12**	**347856.07**
6	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of **design mix M20** with OPC cement @ 320kgs, with 20mmand down size graded granite metal coarse aggregates @0.0.69cum and fine aggregtes @ 0.460cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6(I No-4.11,P No-13)								
	Basic rate	6011.00							
	11% AD-HOC	661.21							
	Sub total	6672.21							
	6.00% AW	400.33							
	Total	**7072.54**							
	CC Drain Raft								
	Cambridge School back side	2	96.00	0.90	0.15	25.92			
	SS Elite APt	2	90.00	0.90	0.15	24.30			
	CC Drain Wall								
	Cambridge School back side	4	96.00	0.15	0.6	34.56			
	SS Elite APt	4	90.00	0.15	0.60	32.40			
						117.18	**Cum**	**7072.54**	**828760.54**
7	KSRB 4-6.4 : Providing and **removing centering, shuttering,** strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2								
	Basic rate	293.00							
	11% AD-HOC	32.23							
	Sub total	325.23							
	6.00% AW	19.51							

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Total	344.74							
	CC Drain Wall								
	Cambridge School back side	8	96.00		0.60	460.80			
	SS Elite APt	8	90.00		0.60	432.00			
						892.80	Sqm	344.74	307787.26
8	KSRB 4.9.2 : Providing **T.M.T steel reinforcement** for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3(I No-4.46.2,P No-17)								
	Basic rate	60607.00							
	11% AD-HOC	6666.77							
	Sub total	67273.77							
	6.00% AW	4036.43							
	Total	71310.20							
	Consider 60kg/Cum	1	117.18	60.00		7030.80			
						7.03	Tn	71310.20	501367.73
9	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Basic rate	2100.00							
	Covering Slab								
	Cambridge School back side	2	96.00	0.90		172.80			
	SS Elite APt	2	90.00	0.90		162.00			
						334.80	Sqm	2100.00	703080.00
10	KSRRB M300-14. **Excavation for roadwork** in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per specifications. MORTH Specification No.301(P.No. 143, I.No. 19.14)								
	Basic rate	46.00							
	11% AD-HOC	5.06							
	Sub total	51.06							
	6.00% AW	3.06							
	Sub total	54.12							
	10km lead & lift, transport	84.00							
	Total	138.12							
	Surabi layout								
	Visvesvarayya Road	1	232.00	6.00	0.40	556.80			
	Church Road	1	130.00	6.00	0.40	312.00			
	Cambridge School back side	1	212.00	5.50	0.40	466.40			
	Cambridge School parallel Rd	1	73.00	5.50	0.40	160.60			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Elite APt	1	167.00	5.50	0.40	367.40			
	Shivanhalli 2nd Stage								
	1st Main	1	60.00	6.50	0.40	156.00			
	1st Cross	1	73.00	4.50	0.40	131.40			
	2nd Cross	1	73.00	4.50	0.40	131.40			
	VRL Logistics	1	30.00	3.80	0.40	45.60			
	Jayamuni Layout								
	Main road	1	26.00	5.70	0.40	59.28			
	6th cross	1	32.00	5.40	0.40	69.12			
	2nd main	1	74.00	5.50	0.40	162.80			
	4th cross	1	175.00	5.00	0.40	350.00			
	5th cross	1	30.00	5.50	0.40	66.00			
	7th cross	1	48.00	5.80	0.40	111.36			
	7th cross	1	48.00	5.80	0.40	111.36			
	2nd cross	1	36.00	5.50	0.40	79.20			
	UGD Cut portion	8	0.75	5.00	0.40	12.00			
						3348.72	**Cum**	**138.12**	**462537.26**
11	KSRRB 300-**Compaction KSRRB 300-58. Compaction** of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3(P.No. 149, I.No. 19.64)								
	Basic rate	5.00							
	11% AD-HOC	0.55							
	Sub total	5.55							
	6.00% AW	0.33							
	Total	**5.88**							
	Surabi layout								
	Visvesvarayya Road	1	232.00	6.00		1392.00			
	Church Road	1	130.00	6.00		780.00			
	Cambridge School back side	1	212.00	5.50		1166.00			
	Cambridge School parallel Rd	1	73.00	5.50		401.50			
	SS Elite APt	1	167.00	5.50		918.50			
	Shivanhalli 2nd Stage								
	1st Main	1	60.00	6.50		390.00			
	1st Cross	1	73.00	4.50		328.50			
	2nd Cross	1	73.00	4.50		328.50			
	VRL Logistics	1	30.00	3.80		114.00			
	Jayamuni Layout								
	Main road	1	26.00	5.70		148.20			
	6th cross	1	32.00	5.40		172.80			
	2nd main	1	74.00	5.50		407.00			
	4th cross	1	175.00	5.00		875.00			
	5th cross	1	30.00	5.50		165.00			
	7th cross	1	48.00	5.80		278.40			
	7th cross	1	48.00	5.80		278.40			
	2nd cross	1	36.00	5.50		198.00			
						8341.80	**Sqm**	**5.88**	**49,074.81**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
12	KSRRB M400-6.1. Construction of **granular sub-base** by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. - For Grading II Material (P.No.155, I.No. 20.4.2)								
	Basic rate	1571.00							
	11% AD-HOC	172.81							
	Sub total	1743.81							
	6.00% AW	104.63							
	Total	**1848.44**							
	Surabi layout								
	Visvesvarayya Road	1	232.00	6.00	0.200	278.40			
	Church Road	1	130.00	6.00	0.200	156.00			
	Cambridge School back side	1	212.00	5.50	0.200	233.20			
	Cambridge School parallel Rd	1	73.00	5.50	0.200	80.30			
	SS Elite APt	1	167.00	5.50	0.200	183.70			
	Shivanhalli 2nd Stage								
	1st Main	1	60.00	6.50	0.200	78.00			
	1st Cross	1	73.00	4.50	0.200	65.70			
	2nd Cross	1	73.00	4.50	0.200	65.70			
	WRL Logistics	1	30.00	3.80	0.200	22.80			
	Jayamuni Layout								
	Main road	1	26.00	5.70	0.200	29.64			
	6th cross	1	32.00	5.40	0.200	34.56			
	2nd main	1	74.00	5.50	0.200	81.40			
	4th cross	1	175.00	5.00	0.200	175.00			
	5th cross	1	30.00	5.50	0.200	33.00			
	7th cross	1	48.00	5.80	0.200	55.68			
	7th cross	1	48.00	5.80	0.200	55.68			
	2nd cross	1	36.00	5.50	0.200	39.60			
	UGD Cut portion	8	0.75	5.00	0.200	6.00			
						1674.36	**Cum**	**1848.44**	**3094951.65**
13	KSRRB M400-17 : Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.(P.No.158, I.No. 20.18)								
	Basic rate	1668.00							
	11% AD-HOC	183.48							
	Sub total	1851.48							
	6.00% AW	111.09							
	Total	**1962.57**							
	Surabi layout								
	Visvesvarayya Road	1	232.00	6.00	0.225	313.20			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	urch Road	1	130.00	6.00	0.225	175.50			
	Cambridge School back side	1	212.00	5.50	0.225	262.35			
	Cambridge School parallel Rd	1	73.00	5.50	0.225	90.34			
	SS Elite APt	1	167.00	5.50	0.225	206.66			
	Shivanhalli 2nd Stage								
	1st Main	1	60.00	6.50	0.225	87.75			
	1st Cross	1	73.00	4.50	0.225	73.91			
	2nd Cross	1	73.00	4.50	0.225	73.91			
	VRL Logistics	1	30.00	3.80	0.225	25.65			
	Jayamuni Layout								
	Main road	1	26.00	5.70	0.225	33.35			
	6th cross	1	32.00	5.40	0.225	38.88			
	2nd main	1	74.00	5.50	0.225	91.58			
	4th cross	1	175.00	5.00	0.225	196.88			
	5th cross	1	30.00	5.50	0.225	37.13			
	7th cross	1	48.00	5.80	0.225	62.64			
	7th cross	1	48.00	5.80	0.225	62.64			
	2nd cross	1	36.00	5.50	0.225	44.55			
	UGD Cut portion	8	0.75	5.00	0.225	6.75			
						1883.66	**Cum**	**1962.57**	**3696802.53**
14	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 (P.No.161, I.No. 21.6)								
	Basic rate	26.00							
	11% AD-HOC	2.86							
	Sub total	28.86							
	6.00% AW	1.73							
	Total	**30.59**							
	Surabi layout								
	Visvesvarayya Road	1	232.00	6.00		1392.00			
	Church Road	1	130.00	6.00		780.00			
	Cambridge School back side	1	212.00	5.50		1166.00			
	Cambridge School parallel Rd	1	73.00	5.50		401.50			
	SS Elite APt	1	167.00	5.50		918.50			
	Shivanhalli 2nd Stage								
	1st Main	1	60.00	6.50		390.00			
	1st Cross	1	73.00	4.50		328.50			
	2nd Cross	1	73.00	4.50		328.50			
	Jayamuni Layout								
	Main road	1	26.00	5.70		148.20			
	6th cross	1	32.00	5.40		172.80			
	2nd main	1	74.00	5.50		407.00			
	4th cross	1	175.00	5.00		875.00			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	6th cross	1	30.00	5.50		165.00			
	7th cross	1	48.00	5.80		278.40			
	7th cross	1	48.00	5.80		278.40			
	2nd cross	1	36.00	5.50		198.00			
						8227.80	**Sqm**	**30.59**	**251701.57**
125	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 (P.No.160, I.No. 21.7)								
	Basic rate	11.00							
	11% AD-HOC	1.21							
	Sub total	12.21							
	6.00% AW	0.73							
	Total	**12.94**							
	Surabi layout								
	Visveswarayya Road	1	232.00	6.00		1392.00			
	Church Road	1	130.00	6.00		780.00			
	Cambridge School back side	1	212.00	5.50		1166.00			
	Cambridge School parallel Rd	1	73.00	5.50		401.50			
	SS Elite APt	1	167.00	5.50		918.50			
	Shivanhalli 2nd Stage								
	1st Main	1	60.00	6.50		390.00			
	1st Cross	1	73.00	4.50		328.50			
	2nd Cross	1	73.00	4.50		328.50			
	VRL Logistics	1	30.00	3.80		114.00			
	Jayamuni Layout								
	Main road	1	295.00	5.70		1681.50			
	6th cross	1	32.00	5.40		172.80			
	2nd main	1	74.00	5.50		407.00			
	4th cross	1	175.00	5.00		875.00			
	5th cross	1	30.00	5.50		165.00			
	7th cross	1	48.00	5.80		278.40			
	7th cross	1	48.00	5.80		278.40			
	2nd cross	1	36.00	5.50		198.00			
						9875.10	**Sqm**	**12.94**	**127809.47**
126	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.163, I.No. 21.17.6)								
	Basic rate	6717.00							
	11% AD-HOC	738.87							
	Sub total	7455.87							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
6.00% AW	447.35							
Total	**7903.22**							
Surabi layout								
Visvesvarayya Road	1	232.00	6.00	0.05	69.60			
Church Road	1	130.00	6.00	0.05	39.00			
Cambridge School back side	1	212.00	5.50	0.05	58.30			
Cambridge School parallel Rd	1	73.00	5.50	0.05	20.08			
SS Elite APt	1	167.00	5.50	0.05	45.93			
Shivanhalli 2nd Stage								
1st Main	1	60.00	6.50	0.05	19.50			
1st Cross	1	73.00	4.50	0.05	16.43			
2nd Cross	1	73.00	4.50	0.05	16.43			
Jayamuni Layout								
Main road	1	26.00	5.70	0.05	7.41			
6th cross	1	32.00	5.40	0.05	8.64			
2nd main	1	74.00	5.50	0.05	20.35			
4th cross	1	175.00	5.00	0.05	43.75			
5th cross	1	30.00	5.50	0.05	8.25			
7th cross	1	48.00	5.80	0.05	13.92			
7th cross	1	48.00	5.80	0.05	13.92			
2nd cross	1	36.00	5.50	0.05	9.90			
					411.39	**Cum**	**7903.22**	**3251306.58**

17 KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with5.4 % VG-30 Bitumen (P.No.165, I.No. 21.22.6)

Basic rate	7659.00							
11% AD-HOC	842.49							
Sub total	8501.49							
6.00% AW	510.09							
Total	**9011.58**							
Surabi layout								
Visvesvarayya Road	1	232.00	6.00	0.04	55.68			
Church Road	1	130.00	6.00	0.04	31.20			
Cambridge School back side	1	212.00	5.50	0.04	46.64			
Cambridge School parallel Rd	1	73.00	5.50	0.04	16.06			
SS Elite APt	1	167.00	5.50	0.04	36.74			
Shivanhalli 2nd Stage								
1st Main	1	60.00	6.50	0.04	15.60			